

UPR SERIES PLUGS AND SWITCHED RECEPTACLES — PRODUCT GUIDE





DESIGNED WITH THE HIGHEST PERFORMANCE STANDARDS

Compact, lightweight, strong and corrosion resistant, UPR Series plugs and receptacles are ideal for connecting power in the most demanding industrial locations. The same plug used in hazardous locations can also be safely used with interlocking non hazardous location receptacles, simplifying the use of portable equipment throughout the facility.

STANDARD MATERIALS

- Wall Socket: Polyamide
- Plug: Polyamide

FEATURES

- Plug and socket system is designed with a mechanical interlock to insure disengagement cannot occur while energized.
- Large ON/OFF actuator on the receptacle gives clear, visible indication of the receptacle status for maximum hazardous location protection.
- Receptacle can be locked in 0 (Off) and 1 (On) positions.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept only UPR plugs of the proper voltage.
- Receptacle is equipped with an explosion proof switch.
- UPR plugs can be used in non-hazardous IEC 60309-2 sockets.
- Operating temperature of -20 °C to +55 °C.







CERTIFIED FOR OPERATIONAL SAFETY AND VERSATILITY

Appleton offers the product designs and certifications you need to ensure operational safety in your project design specification. With our newest innovation, specifiers now have a complete selection of Appleton products for every lighting and electrical requirement – including plugs and receptacles that meet IECEX/ATEX requirements.

SUITABLE APPLICATIONS

- Plugs and receptacles are used for portable or stationery electrical equipment such as:
- Lighting systems
- Conveyors
- Heaters
- Motor generators
- Air conditioning equipment
- Compressors
- Pumps
- For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 in the oil and gas industry such as:
- Refineries
- Chemical and petrochemical plants
- Pipelines
- Loading docks
- Onshore and offshore drilling platforms

CERTIFICATIONS AND COMPLIANCES

- ATEX/IECEx Certification Type UPR
- Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: © II 2 G
 - Type of Protection: Ex db eb IIB
 - Temperature Class: T6 for Ta ≤ +40 °C and T5 for +55 °C
- Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: © II 2 D
 - Type of Protection: Ex tb IIIB
 - Surface Temperature: T79 °C (Ta +40 °C); T94 °C (Ta +55 °C)
- Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F)
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09
- CE Declaration of Conformity: 50311
- ATEX Certificate: LCIE 15 ATEX 3054X
- IECEx Certificate: IECEx LCIE 15.0044X

SUITABLE LOCATIONS



CONVEYORS



COMPRESSORS





CHEMICAL AND PETROCHEMICAL PLANTS

THE RELIABLE CHOICE FOR SAFELY SUPPLYING POWER

Appleton's UPR Series plugs and receptacles feature rugged nonmetallic construction, voltage color-coding, keyed design and lockable switch. Available in 16 Amp and 32 Amp models, UPR Series plugs and receptacles are a reliable choice for supplying power safely in harsh, rugged and hazardous locations.

LOCKABLE EXTERNAL SWITCH

Complies with IEC 60309-1, visually confirms on/off status, can be locked in either position



COLOR CODING

Provides easy identification of plugs and receptacles wired for matching voltage

INTERLOCKING DEADFRONT DESIGN

Plug must be fully inserted and locked into place before switch can be energized

AMPERAGE-SPECIFIC SHELL DIAMETER

Prevents insertion of 16 Amp plug into 32 Amp receptacle

KEYED DESIGN WITH "CLOCKED" GROUND-PIN POSITION

Prevents insertion of plugs into receptacles wired for a different voltage or phase configuration



ERGONOMIC PLUG DESIGN

Provides for ease of use and superior strain relief

UPR SERIES 16 AMP PLUGS AND SOCKETS





- Two M25 threaded entries on the bottom. Available on top upon request.
- Supplied with one M25 cable gland Ø 8 to Ø 18.5 mm and one M25 blanking plug.
- Terminal capacity 2 x 2.5 to 4 mm² (#14 to #12 AWG). Can be through-wired up to 4 mm² (#12 AWG).
- Fitted with two linked earth terminals.



Plug (LV)

- Integrated cable clamp Ø 9.2 to Ø 17 mm.
- Terminal capacity 2.5 to 4 mm² (#14 to #12 AWG).

LV: LOW VOLTAGE

Yellow	Blue	Red	Black
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac
			600/690 Vac

TECHNICAL DATA

	Breaking Capacity	
AC1	16 Amp	690 Vac
	8 Amp	500 Vac
AC3	4 Amp	690 Vac
	16 Amp	690 Vac
AC15	16 Amp	415 Vac
DC1	10 Amp	24 Vdc
DC1	6 Amp	50 Vdc
hort Circuit Withstand (ICC): 10kA		

UPR SERIES 16 AMP PLUGS AND SOCKETS

Description	Pin Configuration	Weight kg	Volume dm³	Color	Catalog Number
Low Voltage: LV					
100/130 Vac 50/60 Hz	- Yellow				
Wall Socket	(4h)	1.29	11.3	Yellow	UPR316RY4
Plug	L/+************************************	0.31	2.4	Yellow	UPR316PY4
200/250 Vac 50/60 Hz	- Blue				
Wall Socket	L/+ 6h°	1.29	11.3	Blue	UPR316RB6
Plug	2P+E	0.31	2.4	Blue	UPR316PB6
Wall Socket	L1 L2	1.39	11.3	Blue	UPR416RB9
Plug	L3 TV 3P+E	0.38	2.4	Blue	UPR416PB9
Wall Socket	L1 L2 09h L3	1.43	11.3	Blue	UPR516RB9
Plug	3P+N+E (1) (1) 120/208 V - 144/250 Vac 50/60 Hz	0.41	2.4	Blue	UPR516PB9
380/415 Vac 50/60 Hz					
Wall Socket	L1 (6hc) L2	1.39	11.3	Red	UPR416RR6
Plug	3P+E	0.38	2.4	Red	UPR416PR6
Wall Socket	L2 L3 L3 N	1.43	11.3	Red	UPR516RR6
Plug	3P+N+E (2) (2) 200/346 V - 240/415 Vac 50/60 Hz	0.41	2.4	Red	UPR516PR6
480/500 Vac 50/60 Hz	- Black				
Wall Socket	(7)F)	1.39	11.3	Black	UPR416RN7
Plug	3P+E	0.38	2.4	Black	UPR416PN7
Wall Socket	L2 L1-(07h0) L3	1.43	11.3	Black	UPR516RN7
Plug	3P+N+E (3) (3) 277/480-288/500 Vac 50/60Hz	0.41	2.4	Black	UPR516PN7
600/690 Vac 50/60 Hz	- Black				
Wall Socket	L2 C L3	1.39	11.3	Black	UPR416RN5
Plug	3P+E	0.38	2.4	Black	UPR416PN5
Wall Socket	L2 (5h O) N	1.43	11.3	Black	UPR516RN5
Plug	3P+N+E	0.41	2.4	Black	UPR516PN5

UPR SERIES 32 AMP PLUGS AND SOCKETS





- Two M32 threaded entries on the bottom. Available on top upon request.
- Supplied with one M32 cable gland Ø 10 to Ø 25 mm and one M32 blanking plugs.
- Terminal capacity 2 x 6 to 10 mm² (#10 to #8 AWG). Can be through-wired up to 6mm² (#10 AWG).
- Fitted with two linked earth terminals.



Plug (LV)

- One integrated cable clamp Ø 14.1 to Ø 29.1 mm for 3P+N+E versions.
- Terminal capacity 6 to 10 mm² (#10 to #8 AWG).

LV: LOW VOLTAGE

EV. LOVV VOLITIGE			
Yellow	Blue	Red	Black
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac
			600/690 Vac

TECHNICAL DATA

	Breaking Capacity	
AC3	32 Amp	690 Vac
AC22	32 Amp	690 Vac
Short Circuit Withstand (ICC): 10kA		



UPR SERIES 32 AMP PLUGS AND SOCKETS

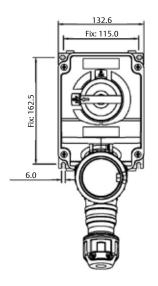
Description	Pin Configuration	Weight kg	Volume dm³	Color	Catalog Number
100/130 Vac 50/60 H	Iz - Yellow				
Wall Socket	(4h)	1.71	11.3	Yellow	UPR332RY4
Plug	L/+**** 2P+E	0.46	2.4	Yellow	UPR332PY4
200/250 Vac 50/60 H	łz - Blue				
Wall Socket	L/+	1.71	11.3	Blue	UPR332RB6
Plug	2P+E	0.46	2.4	Blue	UPR332PB6
Wall Socket	L1 L2	1.85	11.3	Blue	UPR432RB9
Plug	L3 SP+E	0.49	2.4	Blue	UPR432PB9
Wall Socket	L1 L2 N 9h L3	1.91	11.3	Blue	UPR532RB9
Plug	3P+N+E (1) (1) 120/208 V - 144/250 Vac 50/60 Hz	0.54	2.4	Blue	UPR532PB9
380/415 Vac 50/60 H	Iz - Red				
Wall Socket	L1 (6ha)	1.85	11.3	Red	UPR432RR6
Plug	3P+E	0.49	2.4	Red	UPR432PR6
Wall Socket	L2 L3 L1 6h N	1.91	11.3	Red	UPR532RR6
Plug	3P+N+E (2) (2) 200/346 V - 240/415 Vac 50/60 Hz	0.54	2.4	Red	UPR532PR6
480/500 Vac 50/60 H	łz - Black				
Wall Socket	(7 fr)	1.85	11.3	Black	UPR432RN7
Plug	3P+E	0.49	2.1	Black	UPR432PN7
Wall Socket	L2 L1 (0 7h 0) L3	1.91	11.3	Black	UPR532RN7
Plug	3P+N+E	0.54	2.4	Black	UPR532PN7
600/690 Vac 50/60 H	Iz -Black				
Wall Socket	L2 L3	1.85	11.3	Black	UPR432RN5
Plug	3P+E	0.49	2.4	Black	UPR432PN5

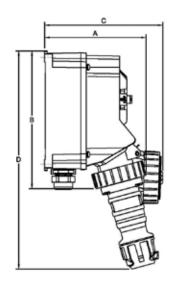
UPR SERIES 16 AMP PLUGS AND SOCKETS

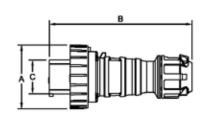
16A — 2P+E — 3P+E — 3P+N+E Versions

Wall Mounting Sockets









	Dimensions in Millimeters				
	Α	В	C	D	
2 P + E	157.0	211.0	183.5	335.0	
3 P + E	161.0	215.0	193.0	335.0	
3 P + N + E	163.0	215.0	193.0	335.0	

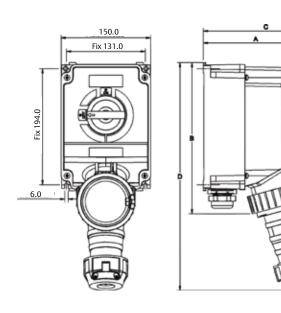
	Dimensions in Millimeters				
	Α	В	С		
2 P + E	81.0	183.0	44.0		
3 P + E	89.0	183.0	49.0		
3 P + N + E	93.5	183.0	56.0		

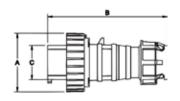
UPR SERIES 32 AMP PLUGS AND SOCKETS

32A - 2P+E - 3P+E - 3P+N+E Versions

Wall Mounting Sockets







	Dimensions in Millimeters				
	Α	В	C	D	
2 P + E	175.0	250.0	210.0	380.0	
3 P + E	175.0	250.0	210.0	380.0	
3 P + N + E	177.0	250.0	210.0	380.0	

	Dimensions in Millimeters			
	Α	В	C	
2 P + E	98.0	200.0	57.0	
3 P + E	98.0	200.0	57.0	
3 P + N + E	102.0	200.0	63.0	

Emerson brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge. Appleton is our premium line of lighting and electrical products for hazardous and industrial locations.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson brands to make electrical installations safer, more productive and more reliable.

The Appleton Group business unit of Emerson is organized into three focused groups that provide distributors and end users expert knowledge and excellent service.

Electrical Construction Materials

This group is made up of the Appleton and O-Z/Gedney brands. They manufacture a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial and hazardous lighting. Whether the application is hazardous location, industrial or commercial, the electrical construction materials group has the products to meet your needs.

Power Quality Solutions

The SolaHD brand offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge protection devices and power supplies.

Heating Cable Systems

This group is made up of the EasyHeat and Nelson brands. They offer a broad range of electrical heating cable products for residential, commercial and industrial applications. Asia/Pacific + 65.6556.1100

Australia + 61.3.9721.0348

Canada + 1.888.765.2226

China + 86.21.3338.7000

Europe + 33.3.22.54.13.90

Mexico/Latin America + 52.55.5809.5049

Middle East/Africa/India + 971.4.881.8100

United States + 1.800.621.1506

Appleton Group 9377 W. Higgins Road Rosemont, IL 60018 1.800.621.1506 appletonelec.com

Connect with Appleton Facebook | Twitter | YouTube





Appleton Grp LLC d/b/a Appleton Group. The Appleton and Emerson logos are registered in the U.S. Patent and Trademark Office.

EasyHeat, Inc. is a wholly owned subsidiary of Appleton Grp LLC. All other product or service names are the property of their registered owners. © 2016, Appleton Grp LLC. All rights reserved.